

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

690 Walnut Ave.St. 150

Vallejo, CA 94592-1133

(707) 649-5453

(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-027157**Date Inspected:** 08-Feb-2012**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1500**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site**CWI Name:** Salvador Moreno**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector R. Hernandez was present during the time noted above and conducted observations relative to the work being performed.

The QA Inspector randomly observed the following work in progress:

Quality Assurance Inspector (QA) Rene Hernandez was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

**West Line****Ultrasonic Testing**

This QA performed Ultrasonic Testing (UT) on approximately 10% of welds at the following location and weld numbers: 13W/14W weld no. A4 at 4000mm to 5500mm.

These welds were previously accepted by QC Ultrasonic technicians in accordance with AWS D1.5-2002, section 6, table 6.3.

This QA observed no rejectable indications at the time of testing. This QA generated a TL-6027 UT report on this date. The completed work observed at this location appeared to be in compliance with the contract specifications.

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## WELDING INSPECTION REPORT

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This weld is a Seismic Performance Critical Member (SPCM) member.

This QA observed, at random intervals, ABF/JV qualified welder Mike Jimenez #4671 performing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode and implementing Caltrans approved Welding Procedure Specification (WPS) ABF-WPS-D15-1110-R1. This was a Complete Joint Penetration (CJP) weld on a 14mm plate insert at the "A" deck to close the lifting lug deck penetration holes. This work was located at 13W-PP122.5-W3-LLH#3 was performed in the overhead position from the inside of the "A" deck plate. During welding, ABF Quality Control (QC) Salvador Moreno was noted monitoring the welding parameters. Welding parameters were recorded.

This QA observed, at random intervals, ABF/JV qualified welder Eric Sparks #3040 performing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode and implementing Caltrans approved Welding Procedure Specification (WPS) ABF-WPS-D15-1110-R1. This was a Complete Joint Penetration (CJP) weld on a 14mm plate insert at the "A" deck to close the lifting lug deck penetration holes. This work was located at 13W-PP118.5-W3-LLH#3 and was performed in the overhead position from the inside of the "A" deck plate.

During welding, ABF Quality Control (QC) Salvador Moreno was noted monitoring the welding parameters. Welding parameters were recorded.

East Line

### Ultrasonic Testing

This QA performed Ultrasonic Testing (UT) on approximately 10% of welds at the following location and weld numbers: 13W/14W weld no. A3 and A4 at 1200mm to 3950mm.

These welds were previously accepted by QC Ultrasonic technicians in accordance with AWS D1.5-2002, section 6, table 6.3.

This QA observed no rejectable indications at the time of testing. This QA generated a TL-6027 UT report on this date. The completed work observed at this location appeared to be in compliance with the contract specifications.

This weld is a Seismic Performance Critical Member (SPCM) member.

This QA verbally informed QA SPCM Lead, Daniel Reyes, of the issues noted in this report for compliance. For further details of issues of significance see QA SPCM Lead, Daniel Reyes, "Daily Inspection Report" (TL-6031) submitted for this date.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

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## WELDING INSPECTION REPORT

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### Summary of Conversations:

Pertinent conversations are in the body of this report

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy, (858) 531-0335, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Hernandez,Rene	Quality Assurance Inspector
<b>Reviewed By:</b>	Levell,Bill	QA Reviewer

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